



MAT-8210US

PATENT

2834

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Eiichi Ibata et al. : Art Unit: 2834
Serial No.: 10/017,446 : Examiner: H. Elkassabgi
Filed: December 14, 2001 :
For: MICRO-MOTOR AND APPARATUS :
USING THE SAME MOTOR :

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TECHNOLOGY CENTER-2800HS/A
D. EVANS
11.14.02AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

S I R :

Responsive to the Office Action dated **July 31, 2002** (herein "Office Action"), please amend the above-identified application as follows:

IN THE CLAIMS:

Please replace claims 1, 5, 9 and 13 with the following amended claims:

- 1 1. (Amended) A motor comprising:
- 2 (a) a cylindrical frame made of ferromagnetic material;
- 3 (b) a pipe fitted in and disposed within said frame concentrically,
- 4 the difference between an inner diameter of the frame and an outer diameter of
- 5 the pipe is between 0 μ m and 20 μ m;
- 6 (c) a sintered bearing press-fitted into said pipe;
- 7 (d) a cylindrical magnet fixed on an outer wall of said pipe at an
- 8 inner wall of said magnet; and
- 9 (e) a cylindrical coil facing said magnet via an annular space,
- 10 wherein said frame and said pipe are welded at a fitted section
- 11 therebetween.

- 1 5. (Amended) A motor comprising:
- 2 (a) a cylindrical frame made of ferromagnetic material;